

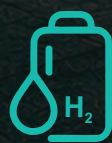
SOLID-STATE HYDROGEN STORAGE

Integrated solutions for industrial decarbonization.

X₂GO



<30 bar
Low Pressure
Operation



Up to 200kg
H₂ Storage
Capacity



<90%
Thermal Process
Efficiency



AI-Ready
Intelligent
Monitoring

ENABLING INDUSTRIAL DECARBONIZATION

THROUGH HYDROGEN INFRASTRUCTURE

Integrated solid-state storage solutions designed to support efficient hydrogen deployment across critical energy systems.

HOW IT WORKS



Hydrogen Input

Hydrogen is supplied at low pressure.



Solid-State Absorption

Hydrogen is absorbed into proprietary solid-state material.



Low-Pressure Storage

Hydrogen is stored safely at pressures <30 bar.



Thermal H2 Release

Hydrogen is released on demand using low-grade heat.

KEY ENGINEERING ADVANTAGES

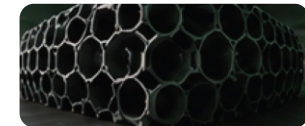
Low Pressure Operation

Simplifies design and enhances operational reliability.



Higher Energy Density

Up to 30% storage footprint reduction vs. compressed gas.



Integrated Intelligence

AI-enabled monitoring for optimized performance.



Modular Deployment

ISO containerized architecture for faster integration.



PRODUCT SPECIFICATIONS

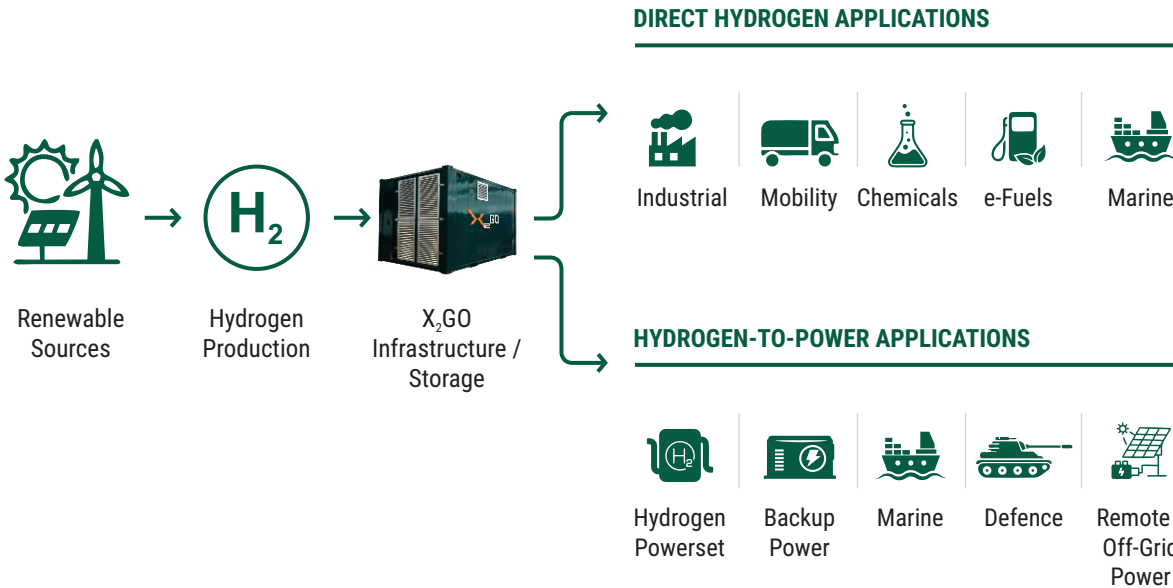
H2 Capacity	Up To 200 Kg
Energy Capacity	Up To 6600 Kwh
Pressure Range (Input)	1 - 10 Bar(G)
Pressure Range (Output)	Up To 30 Bar(G)
H2 Purity (Out)	> 99.9995% (Iso 14687)
Connectivity	Profinet, IIoT Ready
Unit Size	2.90 X 2.44 X 3.91 M* (High Cube Iso Container)
Unit Weight	~25 Tons*
Peak Flow Rate	Up To 60 Kg H2 / Hr
Thermal Process Efficiency	> 90%

* Indicative values; subject to final configuration.

 Storage acts as the essential intermediary, stabilizing the supply chain and unlocking hydrogen's full potential.

 X2GO serves as the critical bridge in the hydrogen ecosystem, connecting intermittent renewable energy production with consistent demand for end uses.

X2GO IN THE HYDROGEN VALUE CHAIN



BUILT FOR CRITICAL APPLICATIONS



Industrial
Manufacturing



Refining &
Petrochemical



Steel &
Metals



Chemicals &
Ammonia



Power
Generation



Heavy-Duty
Mobility



Marine &
Shipping



Aviation &
e-Fuels



Agriculture



Data Centers &
Backup Power



Supporting hard-to-abate sectors through integrated
hydrogen storage infrastructure.

WHY X2GO?

Low-Pressure Solid-State Storage

Safe, compact and built for
industrial scale.

Integrated Hydrogen-to- Power Systems

Seamless storage and
power conversion in
one ecosystem.

Continuous & Standby Operation

Reliable power for
mission-critical
applications

Containerized Deployment

Fast, modular deployment
for any environment.

Intelligent Monitoring

Real-time insights for
performance and
diagnostics.

Designed for Industrial Use

Built for long-duration
reliability across
industries.

INTEGRATED HYDROGEN-TO-POWER GENERATION

X2Go hydrogen-to-power generators
support continuous and standby
operations through efficient
hydrogen-to-electricity conversion
integrated with solid-state storage
infrastructure.



Hydrogen Fuel Cell Integration

20 kW* fuel-cell architecture



Continuous Operation

Built for standby & continuous power



Optimized Hydrogen Supply

1-10 bar hydrogen input



Industrial Electrical Output

230 VAC (1P) or 415 VAC (3P)



Plug-and-Play Deployment

Containerized deployment-ready system



Intelligent Monitoring

Integrated real-time diagnostics



www.sixaelite.com



info@axisindia.in



+91 92744 11626

